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# **WATER SUPPLY OUTLOOK FOR UTAH**

Prepared by

**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS**

In cooperation with U.S. Forest Service, Bureau of Reclamation,  
Utah Fish and Game Dept., Utah State University, U.S. National  
Park Service, U.S. Geological Survey, and other Federal, State,  
and private organizations.

AS OF  
**JAN. 1, 1973**

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR UTAH**

2/26

and  
**FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS**

*Issued by*

**KENNETH E. GRANT**

ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.



*Released by*

**A. W. HAMELSTROM**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
SALT LAKE CITY, UTAH

*In Cooperation with*

**HUBERT C. LAMBERT**

STATE ENGINEER  
DIVISION OF WATER RIGHTS  
UTAH STATE DEPT. OF NATURAL RESOURCES



*Report prepared by*

**BOB L. WHALEY, Snow Survey Supervisor**

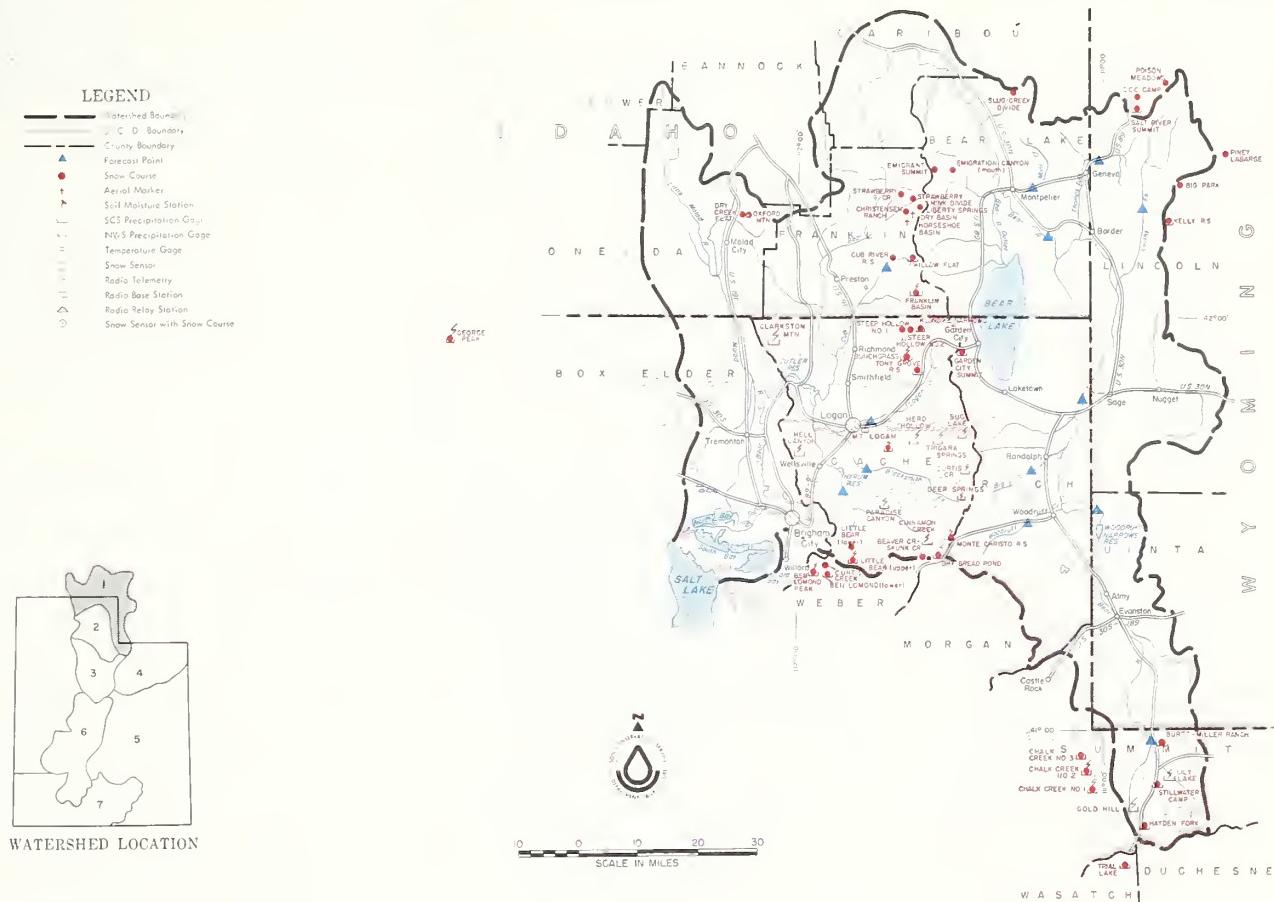
SOIL CONSERVATION SERVICE  
SNOW SURVEY SECTION  
FEDERAL BLDG., ROOM 4012  
SALT LAKE CITY, UTAH 84111



# WATER SUPPLY OUTLOOK

## BEAR RIVER BASIN in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE AS OF JANUARY 1, 1973

SNOW COVER on the upper Bear River is 122% of average and 75% of last year - lower Bear snow cover is average and 32% less than last year on January 1.

PRECIPITATION for the Oct-Dec. period ranges from 94% of average on the lower Bear to 177% on the upper Bear.

RESERVOIR STORAGE is about 130% of average for January 1.

WATERSHED SOILS are primed average to above average.

STREAMFLOW FORECASTS will begin with the February bulletin.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Bear River</u>	Bear Lake	1421.0	1135.6	1122.4	845.0
	Woodruff Narrows	26.5	21.5	26.5	- -
<u>Little Bear</u>	Hyrum	15.3	10.6	10.7	9.2
	Porcupine	11.3	3.3	3.0	- -

## BEAR RIVER BASIN

## SNOW

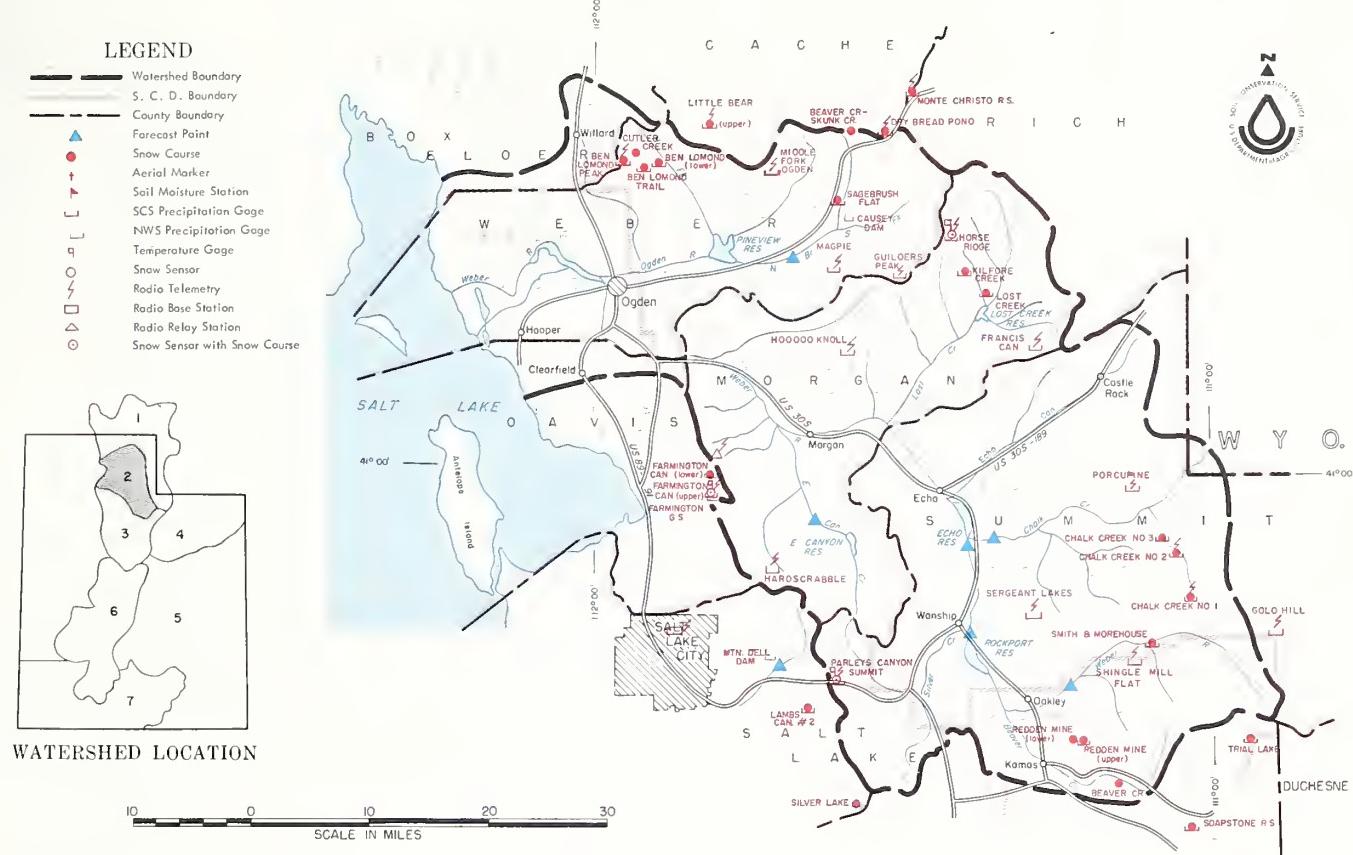
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
NAME	Elevation					
<u>UPPER BEAR RIVER</u> (Above Harer, Idaho)						
Burts-Miller Ranch	7900	12/21	14	3.5	3.5	- -
CCC Camp x	7500	12/29	25	5.1	6.4	4.8
Hayden Fork	9400	12/21	27	5.6	5.4	- -
Salt River Summit	7900	12/29	29	5.6	7.9	6.2
Smith & Morehouse x	7600	12/26	29	6.4	8.4	4.5b
Stillwater Camp	8550	12/21	21	4.4	5.3	- -
Trial Lake x	9800	12/29	54	12.4	16.7	10.8b
<u>LOWER BEAR RIVER</u> (Below Harer, Idaho)						
Beaver Crk-Skunk Crk x	7150	12/28	25	6.3	9.4	- -
Cub River R. S.	5400	12/29	20	3.8	5.4	- -
Dry Bread Pond x	8230	12/28	29	8.6	11.3	- -
Emigrant Summit	7350	12/27	36	9.8	14.9	8.9*
Garden City Summit	7600	12/26	26	6.4	9.8	7.3
Klondike Narrows	7400	12/26	30	7.5	9.9	8.0
Steep Hollow #1	8500	12/26	46	11.8	16.6	- -
Steep Hollow #2	7700	12/26	37	8.9	12.7	- -
Tony Grove R. S.	6250	12/26	19	4.4	6.6	4.0
Willow Flat	6100	12/29	32	6.2	9.0	- -



# WATER SUPPLY OUTLOOK

## WEBER-OGDEN WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE.

SNOW COVER on the Ogden Basin is 147% of average but only 54% of last January 1 - Weber Basin is 139% of average and 67% of last January 1.

PRECIPITATION for the Oct-Dec. period ranged from 110 to 186% of average.

RESERVOIR STORAGE is better than the January 1 average but is 70% of last year on the Ogden and 95% of last year on the Weber.

SOIL MOISTURE is above average.

STREAMFLOW FORECASTS will begin with the February bulletin.

Report prepared by  
BOB L. WHALEY

**U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE**  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
<u>Ogden</u>	Causey	7.1	1.7	3.1	- -
	Pineview	110.1	45.1	64.0	24.9
<u>Weber</u>	East Canyon	48.1	39.1	38.3	- -
	Echo	73.9	55.7	53.8	27.6
	Lost Creek	20.0	14.6	14.7	- -
	Rockport	60.9	31.6	37.3	25.7b
	Willard Bay	193.3	155.4	167.7	- -

## WEBER-OGDEN WATERSHEDS

## SNOW

DRAINAGE BASIN and or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Crk	7150	12/28	25	6.3	9.4	- -
Ben Lomond (lower)	6000	12/27	24	6.3	12.1	4.46
Ben Lomond Peak	8000	12/27	47	14.2	25.5	11.0b
Ben Lomond Trail	6000	12/27	28	7.0	13.9	3.4b
Cutler Creek	6780	12/27	42	11.4	20.4	7.7b
Dry Bread Pond	8230	12/28	29	8.6	11.3	- -
Sagebrush Flat	6300	12/28	14	2.6	5.5	- -
Monte Cristo R. S.	8960	12/28	38	11.1	18.5	- -
<u>WEBER RIVER</u>						
Beaver Creek R. S.	7500	12/29	27	5.6	6.6	3.3b
Chalk Creek #1	9100	12/27	42	11.3	13.1	- -
Chalk Creek #2	7900	12/27	31	7.8	9.0	- -
Chalk Creek #3	7500	12/27	21	5.0	5.5	- -
Farmington Canyon (lower)	6950	12/27	38	9.5	17.6	7.0
Farmington Canyon (upper)	8000	12/27	47	13.5	25.8	9.2b
Horse Ridge	8260	12/29	42	9.6	20.7*	- -
Kilfore Creek		12/29	30	6.3	- -	- -
Lamb's Canyon #1 x	6600	12/30	36	7.2	11.1	4.7
Lamb's Canyon #2 x	7400	12/30	41	8.2	10.8	- -
Parley's Canyon Smt.	7500	12/30	46	9.0	12.6	6.1b
Park City Summit	9300	1/4	55	12.6**	17.2**	- -
Reddon Mine (lower)	8500	12/23	33	8.6	11.8	- -
Reddon Mine (upper)	9000	12/28	36	9.5	12.8	- -
Silver Lake (Brighton) x	8725	12/30	52	13.2	15.3	9.6
Smith & Morehouse	7600	12/26	29	6.4	8.4	4.5b
Trial Lake x	9800	12/29	54	12.4	16.7	10.8b

\* Radio reading on snow pillow

\*\* Snow pillow reading cooperatively by Park City Resort

# FIRST GLASS MAIL

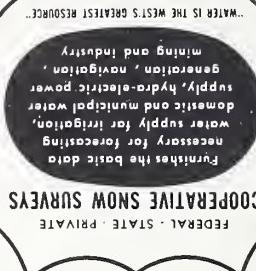


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SOIL CONSERVATION SERVICE  
ED STATES DEPARTMENT OF AGRICULTURE



## WEBER-OGDEN WATERSHEDS

### PRECIPITATION (Inches)

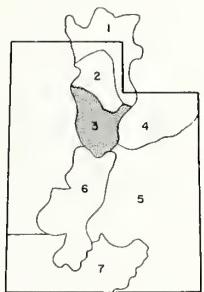
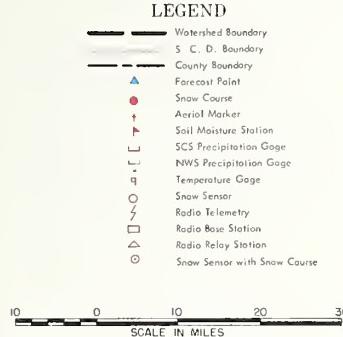
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>OGDEN RIVER</u>							
Ben Lomond Peak *	8000	12/27	5.80	--	19.90	--	--
Ben Lomond (lower)	5850	12/27	--	5.10b	11.35	10.36*	110
Ben Lomond Trial	6000	12/27	--	6.09b	15.10	10.98*	138
Causey Dam	5500	12/28	--	3.27	7.74	--	--
Dry Bread Pond	8230	12/28	--	--	11.81	--	--
Francis Canyon *	7400	12/27	2.44	--	8.40	--	--
Guilder's Peak *	8050	12/27	2.91	--	10.93	--	--
Magpie *	7700	12/27	4.03	--	11.39	--	--
Middle Fork Ogden *	8420	12/27	4.10	--	13.19	--	--
Monte Cristo	8960	12/28	4.81*	--	10.88	--	--
Sagebrush Flat	6300	12/28	--	--	8.06	--	--
<u>WEBER RIVER</u>							
Chalk Creek #1 *	9100	No Reading	--	--	--	--	--
Chalk Creek #2 *	8000	No Reading	--	--	--	--	--
Chalk Creek #3	7500	12/27	--	--	9.83	--	--
Farmington Guard Sta.	7500	12/27	5.56	5.60	15.58	11.44	136
Farmington Rice	7000	12/27	5.73	5.19	15.72	10.16	155
Hardscrabble *	6500	12/27	3.71	--	13.56	--	--
Lamb's #2 x	7400	12/30	Gage Molested	--	--	--	--
Mt. Dell Dam x	5500	12/31	2.14	2.02	7.13	5.48	130
Parley's Canyon Smt.	7500	12/30	--	3.64	13.27	8.00	166
Porcupine *	8100	12/27	5.08	--	10.38	--	--
Reddon Mine (upper)	9000	12/28	--	--	15.97	--	--
Silver Lake (Brighton)	8725	12/31	6.24	5.66	18.72	10.05	186
Smith & Morehouse	7600	12/26	--	3.04b	11.90	6.75*	176
Trial Lake x	9800	12/29	--	3.94*	15.84	8.95*	177
Sargeant Lakes *	8400	12/27	3.08	--	12.54	--	--

\* - Radio Readout cooperatively

# WATER SUPPLY OUTLOOK

## UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



WATERSHED LOCATION



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE AS OF JANUARY 1, 1973

SNOW COVER is about 150% of the January 1 average and 80% of last year at this time.

RESERVOIR STORAGE is about 150% of the January 1, average.

PRECIPITATION for the Oct-Dec. period ranged from 130 to over 200% of average.

SOIL MOISTURE is very good.

STREAMFLOW FORECASTS will begin with the February bulletin.

Report prepared by  
BOB L. WHALEY

**U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111**

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
<u>Spanish Fork</u>	Strawberry	270.0	175.6	192.2	115.3
<u>Utah Lake</u>	Utah Lake	883.9	685.7	790.4	471.2

## UTAH LAKE, JORDAN RIVER &amp; TOOELLE WATERSHEDS

## SNOW

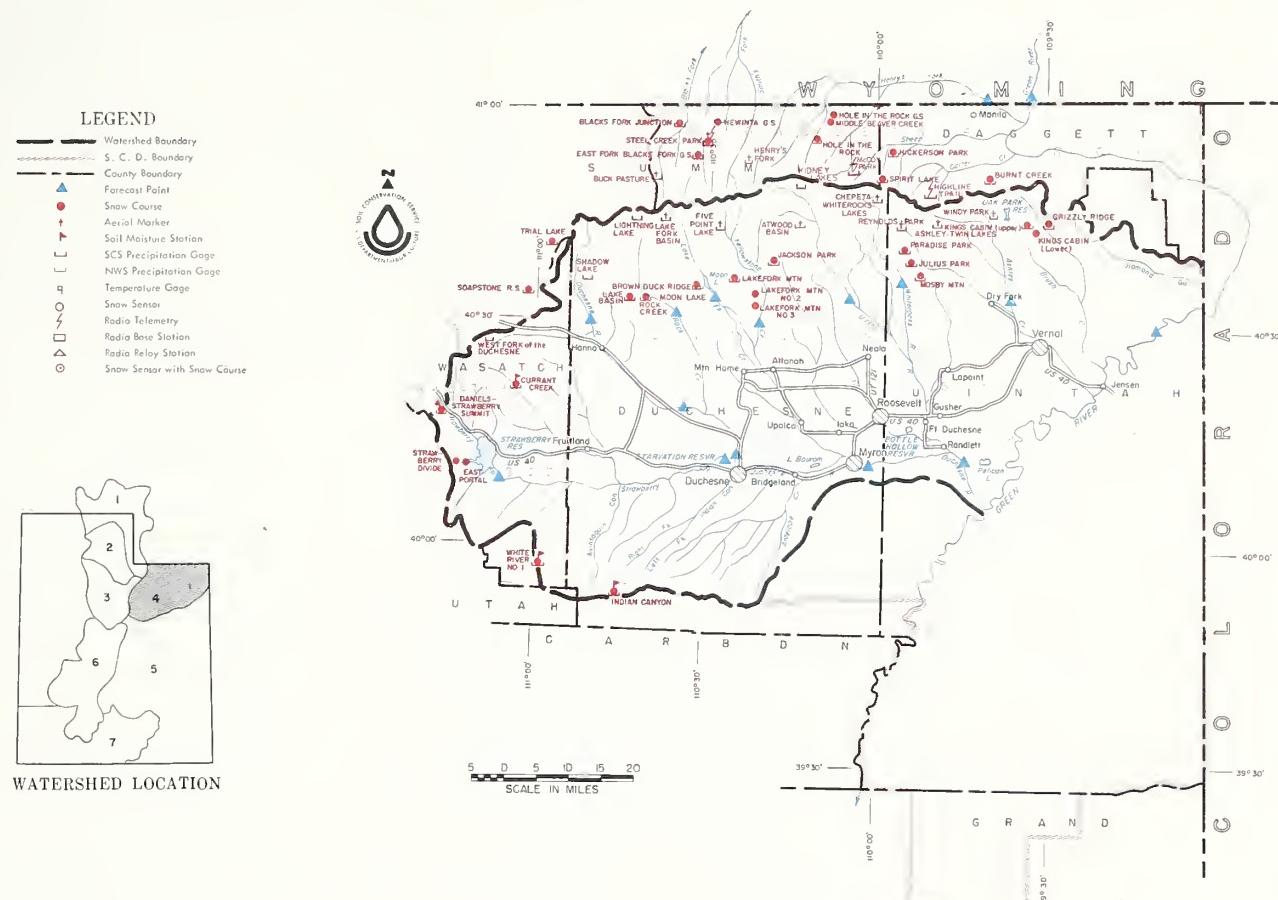
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>UTAH LAKE</u>						
Beaver Creek R. S.	7500	12/29	27	5.6	6.6	3.3b
Camp Altamont	7300	1/2	28	8.2	11.2	5.6
Clear Creek Ridge #1	9200	12/27	33	10.3	12.0	- -
Clear Creek Ridge #2	8000	12/27	31	8.2	8.6	- -
Clear Creek Ridge #3	6600	12/27	22	5.0	4.2	- -
Daniels Strawberry Smt.	8000	12/26	26	6.0	10.4	5.0
Dutchman R. S.	7560	1/2	31	8.4	14.4	- -
East Portal	7560	12/29	24	5.0	8.0	3.3b
Hobble Creek Summit	7420	12/29	31	6.3	9.2	- -
Packard Canyon	6400	12/29	24	4.7	6.1	- -
Payson R. S.	8050	12/26	35	11.5	10.5	5.7b
Rock Bridge	6750	12/26	32	10.5	8.4	3.7b
Soapstone	7800	12/29	31	6.4	8.3	4.7b
South Fork R. S.	6100	1/2	21	4.6	1.6	2.4
Strawberry Divide	8000	12/29	39	9.0	12.6	6.2b
Timpanogos Cave Camp	5500	1/2	9	2.2	0.2	0.6b
Timpanogos Divide	8140	1/2	40	12.0	19.2	9.5
Trial Lake	9800	12/29	54	12.4	16.7	10.8b
<u>JORDAN RIVER &amp; TOOELLE VALLEY</u>						
Lamb's Canyon #1	6600	12/30	36	7.2	11.1	4.7
Lamb's Canyon #2	7400	12/30	41	8.2	10.8	- -
Middle Canyon - Tooele	7000	No Reading	- -	-	8.1	4.8b
Mill D South Fork	7400	12/30	42	11.4	13.4	6.5b
Parley's Canyon Summit	7500	12/30	46	9.0	12.6	6.1b
Silver Lake	8725	12/30	52	13.2	15.3	9.6
Vernon Creek	7500	1/3	31	6.9	4.3	- -



# WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER is 132% of average but only 70% of last year in Uintah Basin.

PRECIPITATION for the Oct-Dec. period ranged from about 130 to 200% of average.

SOIL MOISTURE is above average

RESERVOIR STORAGE is above average for January 1.

STREAMFLOW FORECASTS will begin in the February Bulletin.

Report prepared by

BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average +
<u>Ashley Creek</u>	Steinaker	33.3	23.9	26.1	14.4b
<u>Green River</u>	Flaming Gorge	3749.0	3087.0	2705.0	--
<u>Lake Fork</u>	Moon Lake	35.8	14.1	13.2	12.6
<u>Strawberry</u>	Starvation	165.3	133.1	135.1	--
<u>Uintah</u>	Bottle Hollow	11.3	11.0	--	--

## UINTAH BASIN &amp; DAGGETT SCD's

## SNOW

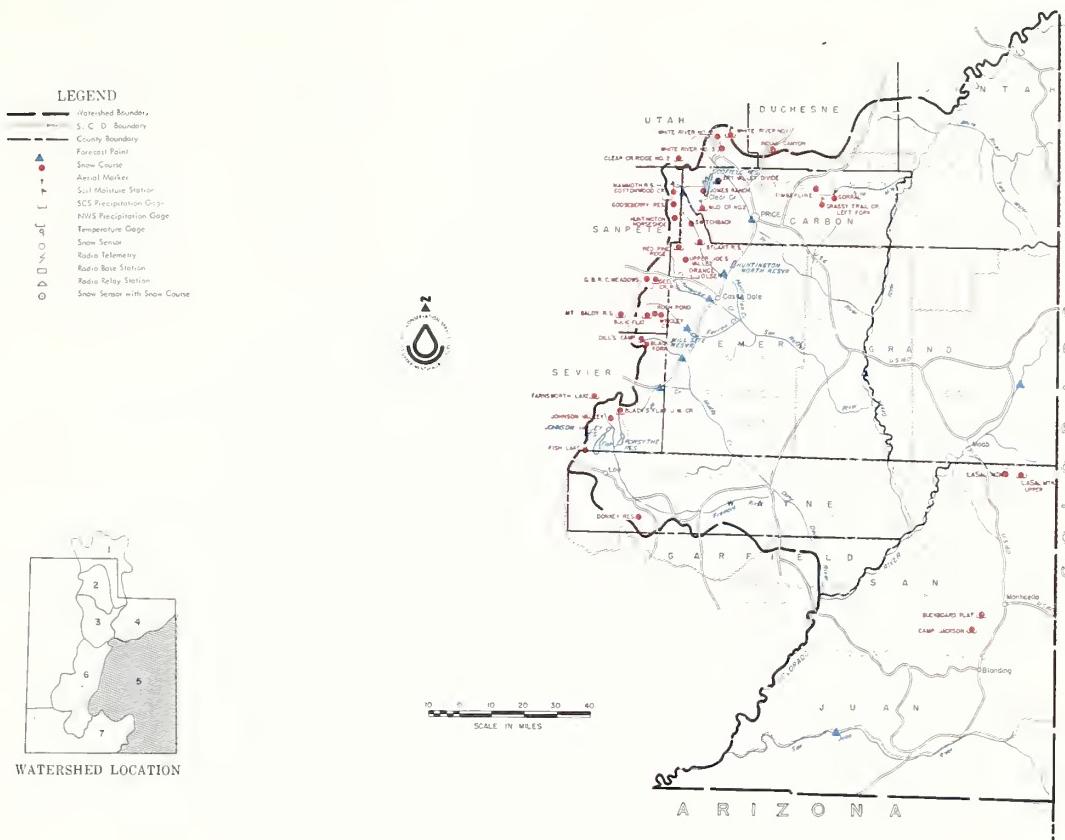
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
NAME	Elevation		Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	Last Year
<u>UINTAH BASIN SCD</u>						
Currant Creek	7800	12/22	21	4.3	8.7	- -
Daniels-Strawberry Smt. x	8000	12/26	26	6.0	10.4	5.0
East Portal x	7560	12/29	24	5.0	8.0	3.3b
Grizzly Ridge	8500	12/19	23	5.6	5.0	- -
Indian Canyon	9100	12/27	30	7.2	12.4	4.6
Julius Park	9800	12/20	30	7.0	9.8	5.3b
King's Cabin (lower)	8600	12/19	21	5.0	5.3	- -
King's Cabin (upper)	8730	12/19	25	6.1	6.8	- -
Lake Basin	10800	Not Measured		- -	7.5	- -
Lakefork Mountain	10200	12/27	26	5.7	9.1	- -
Lakefork Mountain #2	8900	12/27	19	4.1	8.6	- -
Lakefork Mountain #3	8100	12/27	14	2.6	6.1	- -
Mosby Mountain	9500	12/20	22	4.8	6.0	4.2b
Paradise Park	10100	12/20	28	7.3	9.4	5.3b
Rock Creek	7900	12/21	16	3.2	3.6	- -
Soapstone R. S. x	7800	12/29	31	6.4	8.3	4.7b
Strawberry Divide x	8000	12/29	39	9.0	12.6	6.2b
Trial Lake	9800	12/29	54	12.4	16.7	10.8b
White River #1 x	8550	12/26	30	7.3	8.3	- -
Brown Duck Ridge	10800	Not Measured		- -	9.2	- -
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	12/20	24	4.3	5.5	- -
Burnt Creek	7900	Not Measured		- -	3.4	- -
East Fk. Black's Fk. G. S.	9300	12/20	22	4.1	5.5	- -
Hewinta Guard Station	9500	12/20	24	4.5	5.3	- -
Hickerson Park	9100	Not Measured		- -	4.6	- -
Spirit Lake	10300	Not Measured		- -	8.9	- -
Steel Creek Park	9900	Not Measured		- -	8.9	- -



# WATER SUPPLY OUTLOOK

## CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE AS OF JANUARY 1, 1973

SNOW COVER is 20 to 25% less than last January 1, but varies from 165 to 200% of average for January 1.

RESERVOIR STORAGE varies from 99% of last January 1, for Navajo to 87% for Joe's Valley. Scofield is 56% of last year but still 112% of the January 1, average.

PRECIPITATION for the Oct-Dec. period ranged from 160-225% of average at higher elevations.

WATERSHED SOILS are well primed.

STREAMFLOW FORECASTS will begin with the February bulletin.

*Report prepared by*  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

**RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH**

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
<u>Price River</u>	Scofield	65.8	21.7	38.6	19.4
<u>San Rafael</u>	Joe's Valley	54.6	32.5	37.3	- -
	Mill Site	16.7	3.1	- -	- -
	Huntington North	3.9	2.5	- -	- -
<u>San Juan</u>	Navajo	1696.4	982.8	991.3	- -

## CARBON, EMERY, WAYNE, GRAND &amp; SAN JUAN

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
NAME	Elevation		Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
<u>PRICE RIVER</u>						
Dry Valley Divide	7800	12/27	24	5.6	7.0	3.3b
Gooseberry Reservoir	8700	12/27	34	10.4	12.2	6.0b
Indian Canyon x	9100	12/27	30	7.2	12.4	4.6
Jones Ranch	7600	12/27	16	3.6	4.4	1.8
Mammoth R. S.-Ctnwd. Crk.	8800	12/27	36	10.4	13.6	6.1b
Mud Creek #2	8300	12/27	30	7.2	9.9	4.5*
White River #1	8550	12/26	30	7.3	8.3	- -
White River #2	7600	12/26	23	4.5	5.0	- -
White River #3	7400	12/26	21	5.4	4.4	- -
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	12/29	33	8.2	10.6	- -
G.B.R.C. Meadows	10000	No Readings		- -	15.7	8.4b
Gooseberry Reservoir x	8700	12/27	34	10.4	12.2	6.0b
Mammoth R. S.-Ctnwd. Crk X	8800	12/27	36	10.4	13.6	6.1b
Orange Olsen	7300	12/30	11	2.1	3.7	- -
Red Pine Ridge	9400	12/30	36	8.6	10.7	- -
Rush Pond	9800	12/29	32	7.4	8.3	- -
Stuart R. S.	7950	12/27	24	5.4	5.3	- -
Switchback	8600	Discontinued		- -	10.0	- -
Upper Joe's Valley	8900	12/30	25	5.2	6.7	- -
Wrigley Creek	9000	12/29	26	5.7	7.1	- -
<u>MUDY &amp; FREMONT RIVERS</u>						
Black's Flat-U.M. Creek	9250	12/26	27	7.2	7.7	- -
Black's Fork	9200	1/2	26	6.4	9.4	- -
Dill's Camp	9200	1/2	25	6.1	8.6	- -
Farnsworth Lake x	9900	12/28	38	12.1	12.7	6.0b
Fish Lake	8700	12/26	24	6.3	5.5	- -
Johnson Valley	8850	12/26	20	5.0	5.3	- -
Mt. Baldy R. S. x	9500	12/26	40	11.9	14.4	7.2b
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	12/21	30	8.2	10.0	- -
Camp Jackson	8600	12/20	28	7.5	8.6	- -
LaSal Mountain	8800	12/22	21	5.7	6.2	- -
LaSal Mountain (Upper)	9400	12/22	30	7.8	10.8	- -

# FIRST GLASS MAIL



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AGRICULTURE

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COOPERATIVE SNOW SURVEYS

PENALTY FOR PRIVATE USE, \$300

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Soil Lake City, Utah 84111

SOL CONSERVATION SERVICE  
DEPARTMENT OF AGRICULTURE

CARBON, EMERY, WAYNE, GRAND & SAN JUAN

## PRECIPITATION (Inches)

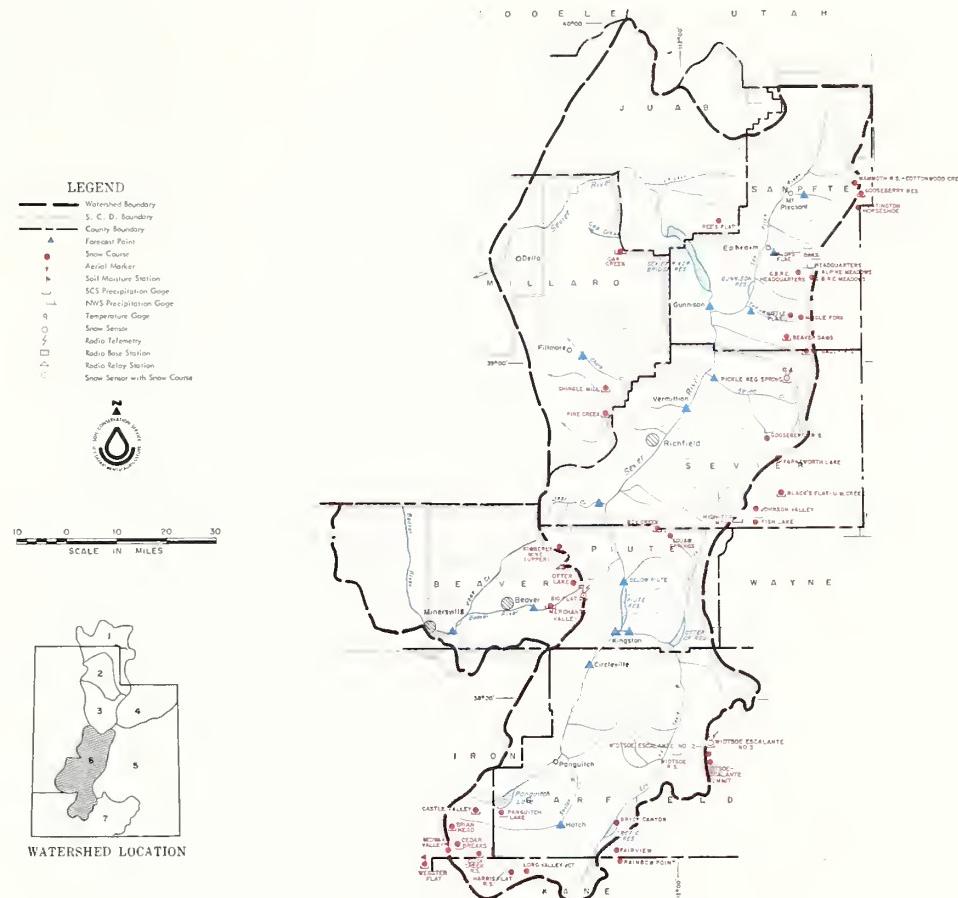
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>PRICE RIVER</u>							
Clear Creek Ridge #2	8000	12/27	- -	- -	11.25	- -	- -
Gooseberry Reservoir	8700	12/27	- -	3.46b	12.60	6.98*	180
Indian Canyon	9100	12/27	- -	2.39b	11.96	6.82b	175
Mammoth R. S. #2	8600	12/27	- -	3.47b	12.90	7.61*	170
Mud Creek	8300	12/27	- -	2.62*	11.89	6.27*	190
White River #1	8600	12/26	- -	- -	9.80	- -	- -
<u>SAN RAFAEL RIVER</u>							
Buck Flat	9400	12/29	- -	- -	12.15	- -	- -
G.B.R.C. Meadows x	10000	No Reading		3.51b	- -	8.53	- -
Gooseberry Reservoir x	8700	12/27	- -	3.46b	12.60	6.98*	180
Orange Olsen	7300	12/30	- -	- -	6.55	- -	- -
Red Pine Ridge	9400	12/30	- -	- -	14.20	- -	- -
Stuart R. S.	7950	12/27	- -	- -	9.00	- -	- -
<u>FREMONT &amp; MUDDY RIVERS</u>							
Dill's Camp	9200	1/2	- -	- -	10.30	- -	- -
Black's Flat-U.M.Crk.	9250	12/26	- -	- -	9.28	- -	- -
Farnsworth Lake x	9900	12/28	- -	2.86b	12.64	6.91b	183
Fish Lake	8700	12/26	- -	- -	8.17	- -	- -
Widtsoe-Escalante #3	9500	12/28	- -	1.51b	13.76	6.14	2.24
Mt. Baldy R. S. x	9500	12/26	- -	2.26*	11.40	7.17*	159
<u>SOUTHEASTERN UTAH DRAINAGES</u>							
Buckboard Flat	9000	12/21	- -	- -	26.84	- -	- -
Camp Jackson	8600	12/20	- -	- -	21.45	- -	- -
LaSal Mountain (Upper)	9600	12/22	- -	- -	13.88	- -	- -

WATER IS THE WEST'S GREATEST RESOURCE.  
mining and industry,  
navigation and irrigation,  
domestic and multiple power  
supply, hydro-electric power  
water supply for irrigation,  
necessary for food production,  
provides the basic data  
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OFFICIAL BUSINESS  
SOIL CONSERVATION SERVICE  
DEPARTMENT OF AGRICULTURE

# WATER SUPPLY OUTLOOK

## SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is about twice the January average. Medium and lower elevation courses are better than last year. Higher courses have less water content than last January 1 on the Sevier. Beaver River has slightly less water content than last year.

PRECIPITATION for the Oct-Dec. period ranges from 126 to 245% of average.

SOIL MOISTURE is above average over most of the area.

RESERVOIR STORAGE is 163% of average and 72% of last January 1 on the main Sevier. Gunnison is only about half last years storage on January 1, and Minersville storage is estimated to be about 8,000 acre feet.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
<u>Sevier River</u>	Gunnison	18.2	5.1	10.8	- -
	Otter Creek	52.5	21.4	25.1	15.5
	Piute	71.8	31.4	44.5	21.8
	Sevier Bridge	236.0	98.2	140.6	55.4
<u>Beaver River</u>	Minersville(Rky Fd)	23.3	8.0*	12.0	7.3

\* - Partly estimated

## SEVIER RIVER BASIN INCLUDING BEAVER RIVER

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	THIS YEAR		PAST RECORD	
			Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
UPPER SEVIER RIVER (South of Richfield, Utah)						
Big Flat x	10290	12/21	38	10.3	10.5	- -
Box Creek	9800	Not Measured			8.4	- -
Bryce Canyon	8000	12/29	26	5.1	2.8	1.4b
Castle Valley	9700	12/27	28	8.1	14.4	- -
Duck Creek R. S.	8700	12/26	30	8.6	11.0	3.9b
Farview	8825	12/29	35	7.5	5.7	- -
Fish Lake	8700	12/26	24	6.3	5.5	- -
Harris Flat R. S.	7700	12/26	25	6.8	3.3	2.0b
Kimberly Mine	9300	12/22	36	11.2	9.7	3.8b
Long Valley Jct. x	7500	12/26	21	5.6	0.1	0.6b
Midway Valley	9800	12/27	41	13.0	20.0	7.5b
Panguitch Lake	8200	12/27	16	3.9	3.6	- -
Rainbow Point	9100	12/29	32	6.6	6.5	- -
Squaw Springs	9300	Not Measured			6.8	- -
Widtsoe-Escalante Smt. x	9500	12/28	25	6.4	5.5	2.6
Widtsoe-Escalante #2 x	9500	12/28	29	7.7	8.0	3.7
Widtsoe-Escalante #3 x	9500	12/28	34	9.5	11.3	4.5b
LOWER SEVIER RIVER (Including San Pitch)						
Beaver Dams	8000	12/26	20	4.8	6.0	3.5b
Farnsworth Lake	9900	12/28	38	12.1	12.7	6.0b
G.B.R.C. Headquarters	8700	12/29	54	11.0	9.3	5.5b
G.B.R.C. Meadows	10000	Not measured			15.7	8.4b
Gooseberry R. S.	8400	12/28	28	8.0	7.2	3.7b
Gooseberry Reservoir x	8700	12/27	34	10.4	12.2	6.0b
Mammoth R. S.-Ctnwd. Crk.	8800	12/27	36	10.4	13.6	6.1b
Mt. Baldy R. S.	9500	12/26	40	11.9	14.4	7.2b
Oak Creek	7760	Not Measured			- -	- -
Pickle Keg Springs	9600	12/22	28	8.2	- -	- -
Pine Creek	8700	Not Measured			9.3	- -
Shingle Mill	6200	1/2	47	10.0	6.3	- -
BEAVER RIVER						
Big Flat	10290	12/21	38	10.3	10.5	- -
Merchant Valley	8200	12/21	19	4.2	5.3	- -
Otter Lake	9300	12/21	32	8.6	9.1	- -

"The Conservation of Water begins with the Snow Survey."



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DEPARTMENT OF AGRICULTURE  
FEDERAL BLDG. - ROOM 4012  
SOFT LAKE CITY, UTAH 84111

SEVIER RIVER BASIN INC LUDING BEAVER RIVER  
**PRECIPITATION (Inches)**

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>SEVIER RIVER</u>							
Beaver Dams	8000	12/26	- -	- -	9.74	- -	- -
Big Flat	10290	12/21	2.45	- -	11.44	- -	- -
Box Creek	9800	Not Measured	- -	- -	- -	- -	- -
Castle Valley	9700	12/27	- -	- -	11.97	- -	- -
Duck Creek R. S.	8560	12/26	4.15	2.53*	15.43	7.65*	202
Farnsworth Lake	9900	12/28	- -	2.86b	12.64	6.91b	183
Fish Lake	8700	12/26	- -	- -	8.17	- -	- -
G.B.R.C. Headquarters	8700	12/29	3.80	2.83	9.15	7.28	126
G.B.R.C. Meadows	10000	Not Measured	3.51b	- -	8.53b	- -	- -
G.B.R.C. Oaks	7655	12/29	2.80	1.94	10.25	4.97	206
Gooseberry R. S.	7800	12/28	- -	1.91b	9.56	4.78*	200
Gooseberry Reservoir x	8700	12/27	- -	3.46b	12.60	6.98*	180
Kimberly Mine	8900	12/22	- -	2.96*	13.65	6.88*	198
Mammoth R. S. #2 x	8600	12/27	- -	3.74b	12.90	7.61*	170
Mt. Baldy	9500	12/26	- -	2.26*	11.40	7.17*	159
Panguitch Lake	8200	12/27	- -	- -	8.70	- -	- -
Pine Creek	8700	Not Measured	- -	- -	- -	- -	- -
Shingle Mill	6200	1/2	- -	1.74*	14.36	5.86*	245
Webster Flat x	9200	12/27	3.58	3.65b	10.43	7.64b	136
Widtsoe-Escalante #3	9500	12/28	- -	1.51b	13.76	6.14b	224
Widtsoe R. S.	7600	12/28	- -	0.61	5.64	2.49	226
Midway Valley	9800	12/27	3.35	- -	9.15	- -	- -
Beaver Canyon P. H.	7275	12/31	1.62	1.34	8.51	3.55	240
Big Flat	10290	12/21	2.45	- -	11.44	- -	- -
Merchant's Valley	8650	12/21	3.41	- -	9.94	- -	- -

# WATER SUPPLY OUTLOOK

## EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

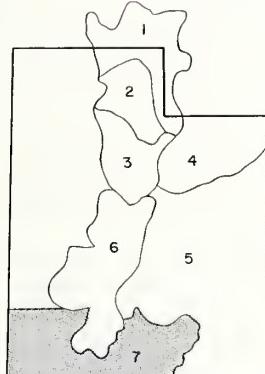
**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**

### LEGEND

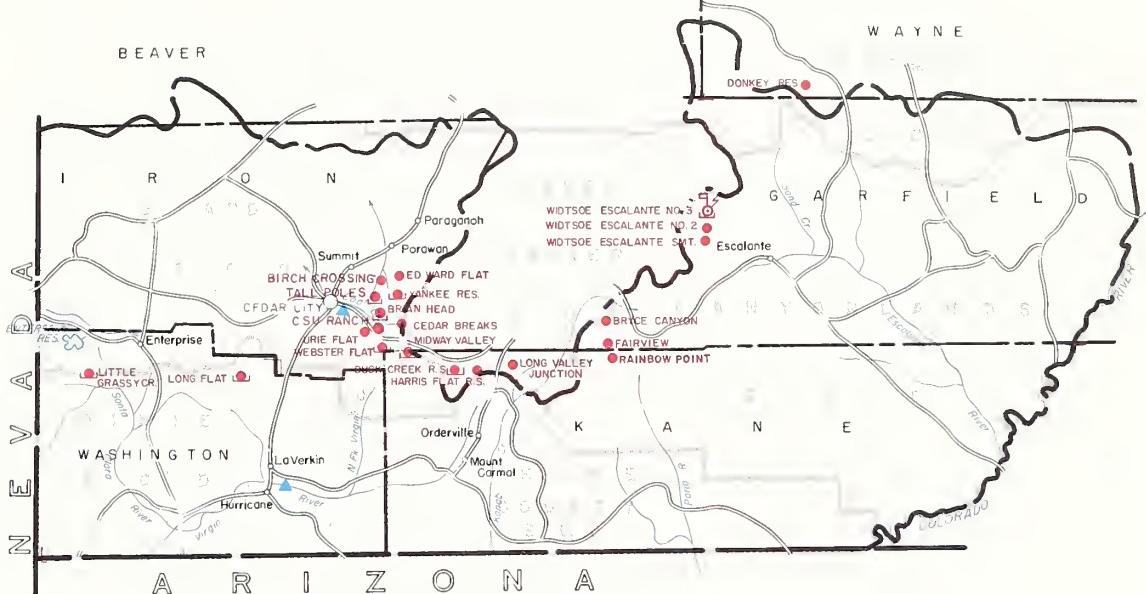
- Watershed Boundary
- S. C. D. Boundary
- County Boundary
- ▲** Forecast Point
- Snow Course
- †** Aerial Marker
- Soil Moisture Station
- SCS Precipitation Gage
- △** NWS Precipitation Gage
- Temperature Gage
- Snow Sensor
- Radio Telemetry
- Radio Base Station
- Radio Relay Station
- Snow Sensor with Snow Course



0 0 10 20 30 40  
SCALE IN MILES



WATERSHED LOCATION



JANUARY 1, 1973

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER is better than double the January 1 average but slightly less than last year at this time.

PRECIPITATION for the Oct-Dec. period ranged from 136% to 224% of average.

SOIL MOISTURE is above average.

RESERVOIR STORAGE is below last January 1 - Lake Powell is now 97% of last year at this time.

Report prepared by  
BOB L. WHALEY

U.S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE  
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

## RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average+
Colorado	Lake Powell	25002.0	12771.0	13117.0	- -

## EAST GARFIELD, KANE, WASHINGTON, &amp; IRON

## SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
NAME	Elevation					
ESCALANTE RIVER						
Widtsoe-Escalante Smt.	9500	12/28	25	6.4	5.5	2.6
Widtsoe-Escalante #2	9500	12/28	29	7.7	8.0	3.7
Widtsoe-Escalante #3	9500	12/28	34	9.5	11.3	4.5b
PARIA RIVER						
Bryce Canyon x	8000	12/29	26	5.1	2.8	1.4b
Fairview	8825	12/29	35	7.5	5.7	- -
Rainbow Point	9100	12/29	32	6.6	6.5	- -
VIRGIN RIVER & COAL CREEK						
CSU Ranch	8200	12/27	19	5.8	6.6	- -
Duck Creek R. S.	8700	12/26	30	8.6	11.0	3.9b
Harris Flat x	7700	12/26	25	6.8	3.3	2.0b
Long Valley Jct.	7500	12/26	21	5.6	0.1	0.6b
Midway Valley x	9800	12/27	41	13.0	20.0	7.5b
Urie Flat	8450	12/27	18	5.8	7.2	1.8b
Webster Flat	9200	12/27	29	9.6	14.1	4.7b
PAROWAN CREEK						
Birch Crossing	8100	12/26	19	5.7	5.6	- -
Brian Head	10000	12/26	37	11.6	16.8	- -
Ed Ward Flat	8300	12/26	24	6.2	6.6	- -
Tall Poles	8800	12/26	30	8.9	11.8	- -
Yankee Reservoir	8700	12/26	25	7.2	8.0	- -
ENTERPRISE TO NEW HARMONY DRAINAGES						
Little Grassy Creek	6100	Not Measured		- -	0.9	- -
Long Flat	8000	Not Measured		- -	4.8	- -

"The Conservation of Water begins with the Snow Survey"

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Federal Bldg. - Room 4012

Soil Lake City, Utah 84111

## EAST GARFIELD, KANE, WASHINGTON & IRON

### PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
<u>ESCALANTE RIVER</u>							
Widtsoe-Escalante #3	9500	12/28	--	1.51b	13.76	6.14b	224
<u>VIRGIN RIVER</u>							
Duck Creek R. S.	8560	12/26	4.15	2.53*	15.43	7.65*	202
Webster Flat	9200	12/28	3.58	3.65b	10.43	7.64b	136
<u>COAL CREEK</u>							
Webster Flat x	9200	12/28	3.58	3.65b	10.43	7.64b	136
<u>PAROWAN CREEK</u>							
Tall Poles	8800	12/26	--	--	13.10	--	--
Yankee Reservoir	8700	12/26	--	--	10.48	--	--
<u>ENTERPRISE TO NEW HARMONY DRAINAGE</u>							
Little Grassy Creek	6100	Not Measured	--	--	--	--	--
Long Flat	8000	Not Measured	--	--	--	--	--

# Agencies Cooperating in Utah Snow Surveys

## U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture  
Soil Conservation Service  
Forest Service  
U.S. Department of Commerce  
NOAA, National Weather Service  
U.S. Department of Interior  
Bureau of Reclamation  
Geological Survey  
National Park Service

## STATE AGENCIES

Utah State University  
Utah Fish and Game Department  
Utah State Department of Natural  
Resources, Division of Water Rights  
Bear River Commissioner  
Price River Commissioner  
Provo River Commissioner  
Sevier River Commissioners  
Spanish Fork River Commissioner  
Utah Lake and Jordan River Commissioner

## MUNICIPALITIES

Manti  
Salt Lake City

## ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association  
Board of Canal Presidents - Jordan River  
Emery Canal and Reservoir Company  
Moon Lake Water Users Association  
Ogden River Water Users Association  
Provo River Water Users Association  
Strawberry Water Users Association  
Sevier River Water Users Association

## PRIVATE AGENCIES

Kaiser Steel Corporation



UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
FEDERAL BLDG., — ROOM 5434  
125 SOUTH STATE ST.  
SALT LAKE CITY, UTAH 84111

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# FIRST CLASS MAIL

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MESSAGE  
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FEDERAL - STATE - PRIVATE

## COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

—  
“The Conservation of Water begins  
with the Snow Survey”